

#### CEC Workshop on Natural Gas Market Analysis

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# SCE believes certain key issues should be considered in the gas forecast

- The ability to forecast the California gas market requires a competitive and open market structure that treats all parties equally
- Electric generation gas demand is a key driver of gas and power price volatility and should be included in any modeling process
- Gas is increasingly a national market and is becoming an international market; therefore, any modeling approach should consider this impact on California gas markets
- Short and mid and long-term effects should be considered





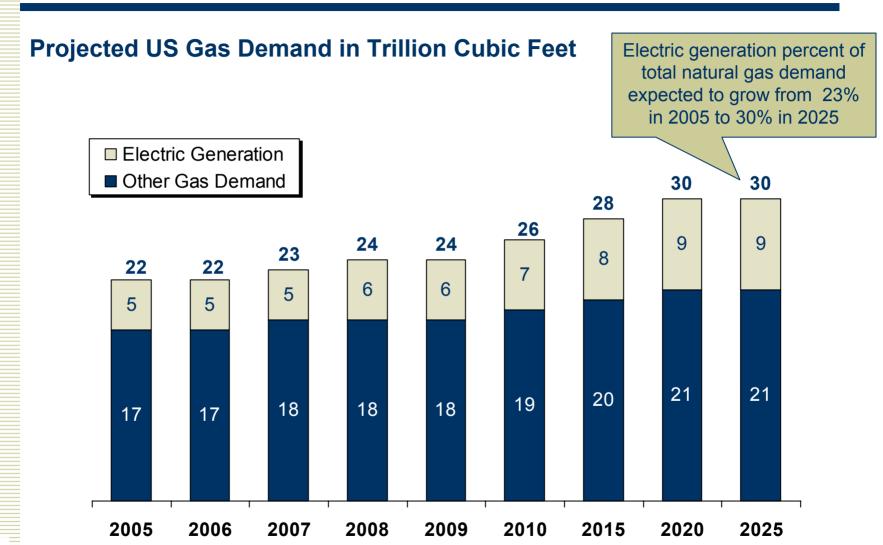
# Appropriate market and regulatory structures are required for the California gas market

- Equal access to transportation services by all customer classes is necessary to foster a truly competitive market
- Equal access for all customer classes to information on pipeline transfer capacity such as provided to all customers on electric transmission transfer capacity is necessary to provide a level playing field
- SCE is not advocating access to confidential information that reveals the market position of any party
- Proper separation LDC transportation and commodity procurement functions is a continuing concern for SCE
- Incentives for LDC procurement functions must be structured so as to not disadvantage non-core customers





## Electric generation is the key driver of the projected increase in demand for natural gas





Source: http://www.eia.doe.gov/oiaf/petgas.html



# Fundamentals are the key drivers behind electric generation gas demand

- Weather
- Production from non-gas fired generation resources
  - Nuclear
  - Coal
  - Hydro, especially in the western US
  - Renewables
- Hydro production can vary greatly year-to-year
- Instantaneous nature of electric market requires detailed daily analysis and specific transfer point analysis



## Gas is a national market and growing into an international market

- The growing interstate pipeline system is allowing supplies from all major basins to serve demand throughout the United States
- Gas demand and supply changes in one region can impact nationwide prices and supplies
- LNG supplies imported into the United States will help the supply situation in California even if not delivered directly into the California market
- Reliance on LNG will require the consideration of international impacts on California gas prices and supplies





### Both short and long-term effects should be considered in the forecast

- Short-term (less than seasonal)
  - Weather (temperatures)
  - Power plant performance
  - Infrastructure outages
- Mid-Term (yearly)
  - Snow pack
  - Refueling of nuclear power stations
- Long-Term
  - Supply changes
    - Access to new basins
    - LNG
  - Changes in gas Infrastructure
    - Pipelines
    - Storage
  - Changes in power generation options
    - Non-gas versus vs. gas
    - Non-Gas generation retirements

